

## **LISTING OF THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A dialling error notification system for visiting subscribers in a visited mobile telephony network (~~100~~), a visiting subscriber being a subscriber from a home mobile telephony network (~~200~~) different from the visited mobile telephony network (~~100~~), ~~characterised in that it comprises~~ comprising:

a first node (~~11~~) of the visited mobile telephony network (~~100~~) comprising means apparatus for analysing a number dialled by a visiting subscriber (~~201~~) and determining whether said dialled number complies with at least one predetermined error criterion; and

means apparatus for sending a short message with a dialling error notification to the visiting subscriber if said dialled number complies with at least one predetermined error criterion; and

means apparatus for determining the identity of the home mobile telephony network (~~200~~) based on the International Mobile Subscriber Identity of the visiting subscriber.

2. (Currently Amended) A system according to claim 1, ~~characterised in that~~ wherein said first node is a Service Control Point (~~11~~) of the visited mobile telephony network (~~100~~).

3. (Currently Amended) A system according to ~~any of the previous claims,~~ claim 1, ~~characterised in that it comprises~~ comprising:

means apparatus for sending a message (M1) to an SS7-IP gateway (~~16~~) from the first node (~~11~~) of the visited mobile telephony network (~~100~~); said message (M1) being a message with instructions to send the short message;

means apparatus for sending an http message to a short message sending server (~~18~~) from said SS7-IP gateway (~~16~~), said http message being a message with instructions to send the short message;

~~means apparatus~~ for sending the short message addressed to the visiting subscriber (201) to a Short Message Service Centre (10) of the visited network (100) from said short message sending server (18), upon receipt of said instructions by said short message sending server.

4. (Currently Amended) A system according to ~~any of the previous claims, characterised in that it comprises means~~ claim 1, further comprising apparatus for selecting text for the short message text based on the identity of the home mobile telephony network as determined by International Mobile Subscriber Identity of the visiting subscriber.

5. (Currently Amended) A system according to claim 3, ~~characterised in that~~ wherein the short message sending server (18) includes a database with short message texts and ~~means apparatus~~ for selecting a short message text based on an indicator code included in the http message received from the SS7-IP gateway (16).

6. (Currently Amended) A system according to claim 3, ~~wherein characterised in that~~ the http message includes at least one indicator code of a short message text and the mobile telephone number of the visiting subscriber (201) to whom the short message must be sent.

7. (Currently Amended) A system according to ~~any of the previous claims, characterised in that it comprises means~~ claim 1, further comprising apparatus for sending an initial control set-up message to a first node (11), comprising at least the following data: the telephone number dialled by the visiting subscriber; the mobile telephone number of the visiting subscriber; and the International Mobile Subscriber Identity of the visiting subscriber.

8. (Currently Amended) A system according to claim 7, ~~characterised in that the means wherein the apparatus~~ for sending an initial control set-up message to the first node (11) are comprised in the Mobile Switching Centres (5,6) of the visited mobile telephony network, such that

when a visiting subscriber in a cell (2) corresponding to Mobile Switching Centre (5) dials a telephone number, said Mobile Switching Centre sends the initial control set-up message to the first node (11).

9. (Currently Amended) A system according to ~~any of the previous claims, characterised in that it comprises control means~~ claim 1, further comprising a control apparatus for preventing a second short message with a dialling error notification from being sent to a visiting subscriber if the time elapsed since a first short message with a dialling error notification was sent to said visiting subscriber is less than a predetermined minimum time.

10. (Currently Amended) A system according to ~~any of the previous claims, characterised in that~~ claim 1, wherein the error criteria include one or several criteria selected from the group ~~comprising~~ consisting of the following criteria:

- the number dialled begins with "+" followed by a sign different from a figure C,  $1 \leq C \leq 9$ ;
- the number dialled begins with "00" followed by a sign different from a figure C,  $1 \leq C \leq 9$ ;
- the number dialled is a 9-figure number beginning with a figure which is not 6, 7, 8 or 9;
- the number dialled begins with "+" or "00" followed by a country code followed by an escape code not applicable for international dialling to said country; and
- the number dialled is a number with fewer than 9 figures which is not a short code.

11. (Currently Amended) A dialling error notification method for visiting subscribers in a visited mobile telephony network (100), a visiting subscriber being a subscriber from a home mobile telephony network (200) different from the visited mobile telephony network (100), characterised in that it comprises the steps of:

(a) analysing in a first node (11) of the visited mobile telephony network (100) a number dialled by the visiting subscriber and determining whether said number dialled complies with at least one predetermined error criterion;

(b) sending at least one short message (SM) to the visiting subscriber if said dialled number complies with at least one predetermined error criterion, said short message comprising at least one dialling error notification;

(c) determining the identity of the home mobile telephony network based on the International Mobile Subscriber Identity of the visiting subscriber.

12. (Currently Amended) A method according to claim 11, ~~characterised in that~~ wherein the first node is a Service Control Point (11) of the visited mobile telephony network (100).

13. (Currently Amended) A method according to ~~any of claims 11 and 12,~~ characterised in that claim 11, wherein

(d) based on the identity home mobile telephony network of the visiting subscriber as determined by the International Mobile Subscriber Identity of the visiting subscriber, it is determined whether the visiting subscriber has the right to a dialling error notification service.

14. (Currently Amended) A method according to claim 13, ~~characterised in that~~ wherein steps (c) and (d) are carried out before step (b).

15. (Currently Amended) A method according to claim 14, ~~characterised in that~~ wherein steps (c) and (d) are carried out before step (a).

16. (Currently Amended) A method according to ~~any of claims 11 to 15,~~ characterised in that claim 11, wherein step (b) comprises:

- sending a message (M1) to an SS7-IP gateway (16) from a Service Control Point (11), said message (M1) being a message with instructions to send the short message;
- sending an http message to a short message sending server (18) from said SS7-IP gateway, said http message being a message with instructions to send the short message;
- sending the short message addressed to the visiting subscriber (201) to a Short Message Service Centre (10) of the visited network (100) from said server (18), upon receipt of said instructions by said short message sending server.

17. (Currently Amended) A method according to ~~any of claims 11 to 16, characterised in that~~ claim 11, wherein text for the short message is selected based on the identity of the home mobile telephony network as determined by the International Mobile Subscriber Identity of the visiting subscriber.

18. (Currently Amended) A method according to ~~claim 17 when depending from claim 16, characterised in that~~ wherein text for the short message is selected based on the identity of the home mobile telephony network as determined by the International Mobile Subscriber Identity of the visiting subscriber; and the text is selected from a plurality of texts comprised in a database of the short message sending server (18) based on an indicator code included in the http message received from the SS7-IP gateway (16).

19. (Currently Amended) A method according to claim 16, ~~characterised in that~~ wherein the http message includes at least one indicator code indicating a short message text and the mobile telephone number of the visiting subscriber (201) to whom the short message must be sent.

20. (Currently Amended) A method according to ~~any of claims 11 to 19, characterised in that it comprises~~ claim 11, further comprising a first step comprising sending an initial control set-up message to the first node (11), comprising at least the following data: the telephone number dialled

by the visiting subscriber; the mobile telephone number of the visiting subscriber; and the International Mobile Subscriber Identity of the visiting subscriber.

21. (Currently Amended) A method according to claim 20, ~~characterised in that~~ wherein the initial control set-up message is sent from an Mobile Switching Centre (5) of the visited mobile telephony network (100) corresponding to the cell (2) in which the visiting subscriber is located.

22. (Currently Amended) A method according to ~~any of claims 11 to 21, characterised in that~~ claim 11, further comprising before sending a short message with a dialling error notification to the visiting subscriber, it is checked that a predetermined minimum time has elapsed since a previous short message with a dialling error notification was sent to the same visiting subscriber, and if said predetermined minimum time has not elapsed, the short message with a dialling error notification is not sent.

23. (Currently Amended) A method according to ~~any of claims 11 to 22, characterised in that~~ claim 11, wherein the error criteria include one or several criteria selected from the group comprising the following criteria:

- the number dialled begins with "+" followed by a sign different from a figure C,  $1 \leq C \leq 9$ ;
- the number dialled begins with "00" followed by a sign different from a figure C,  $1 \leq C \leq 9$ ;
- the number dialled is a 9-figure number beginning with a figure which is not 6, 7, 8 or 9;
- the number dialled begins with "+" or "00" followed by a country code followed by an escape code not applicable for international dialling to said country; and
- the number dialled is a number with fewer than 9 figures which is not a short code.

24. (Currently Amended) A method according to ~~any of claims 11 to 23, characterised in that it~~ claim 11, wherein the method is only carried out for visiting subscribers who are not provided with CAMEL service O-CSI flag.